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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/701,066	11/22/2000	Herbert Peter Jennissen	584.07-US1	7156

34284 7590 09/10/2003

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EXAMINER

SINES, BRIAN J

ART UNIT	PAPER NUMBER
1743	

DATE MAILED: 09/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/701,066	JENNISSEN ET AL.
	Examiner	Art Unit
	Brian J. Sines	1743

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 6/13/2003.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 32-50 and 52-58 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 32-50 and 52-58 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 32 – 50 and 52 – 58 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 32, it is unclear as to how the means subdivides a volume flow in the supply line by introducing a fluid that is immiscible with the chamber solution. It is unclear as to how the essential elements interrelate, such as the fed liquid flow and the fluid, in order to perform their intended function (see MPEP § 2172.01).

The term "extremely thin liquid samples" in claim 32 is a relative term which renders the claim indefinite. The term "extremely" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Regarding claims 52 and 53, it is unclear as to how the liquid flow is subdivided by a fluid into a plurality of volume segments. It is unclear as to how the essential elements interrelate, such as the fed liquid flow and the fluid, in order to perform their intended function (see MPEP § 2172.01).

Regarding claim 52, it is unclear as to how the volume segments are analyzed within the interface layers. Are the volume segments analyzed spectrophotometrically?

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 32 – 42, 44 and 45 are rejected under 35 U.S.C. 102(e) as being anticipated by Weigl *et al.* (U.S. Pat. No. 5,972,710 A). Regarding claim 32, Weigl *et al.* teach an apparatus (10) comprising: a sample chamber (100); a supply line (20) fluidly coupled to the sample chamber; a means (30) for generating thin liquid samples; and an analyzer unit (90) coupled to the sample chamber (see col. 10, lines 25 – 67; col. 11, lines 1 – 66 & col. 15, lines 60 – 65; figures 1 & 2). Regarding claim 33, Weigl *et al.* teach that the sample chamber is disposed within a sample chamber block (501), and wherein the supply line further comprises an injection opening (see col. 21, lines 14 – 51). Regarding claims 34, 36 and 37, Weigl *et al.* teach the incorporation of a radiation source, such as a laser, a radiation conduit, such as a v-groove channel, and a radiation analyzer, such as a photodetector, for optical and fluorescence measurements (see col. 15, lines 4 – 59). Regarding claim 35, Weigl *et al.* teach the incorporation of a vacuum or mechanical means of applying pressure for inducing flow of the feed fluids, such as by incorporating pumps for example, either at the feed inlet or outlet or both (see col. 15, lines 60 – 66). Regarding claims 41 and 42, Weigl *et al.* anticipate the incorporation of a radiation permeable wall comprising quartz glass (see col. 14, lines 52 – 67).

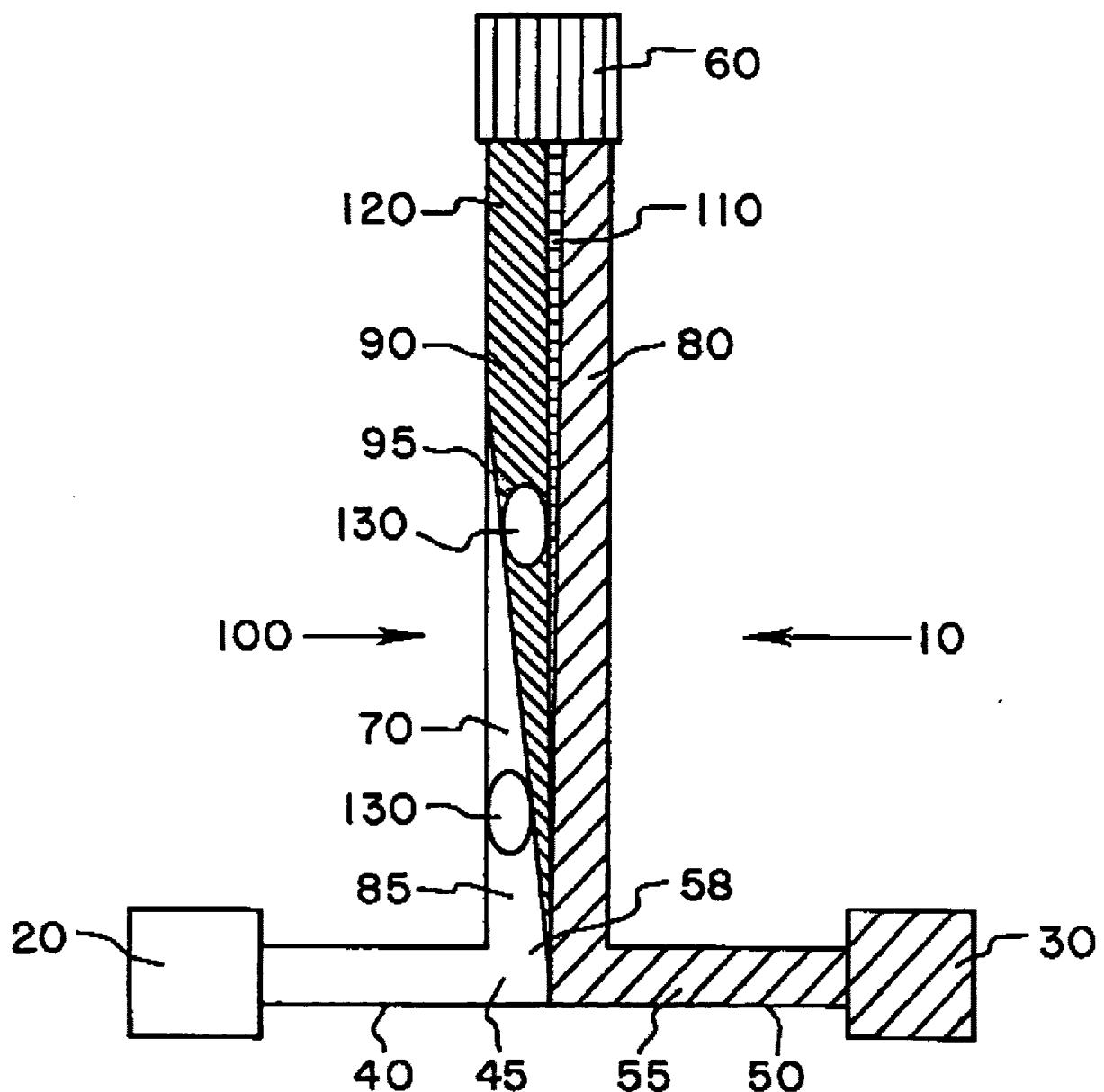


Fig. 1

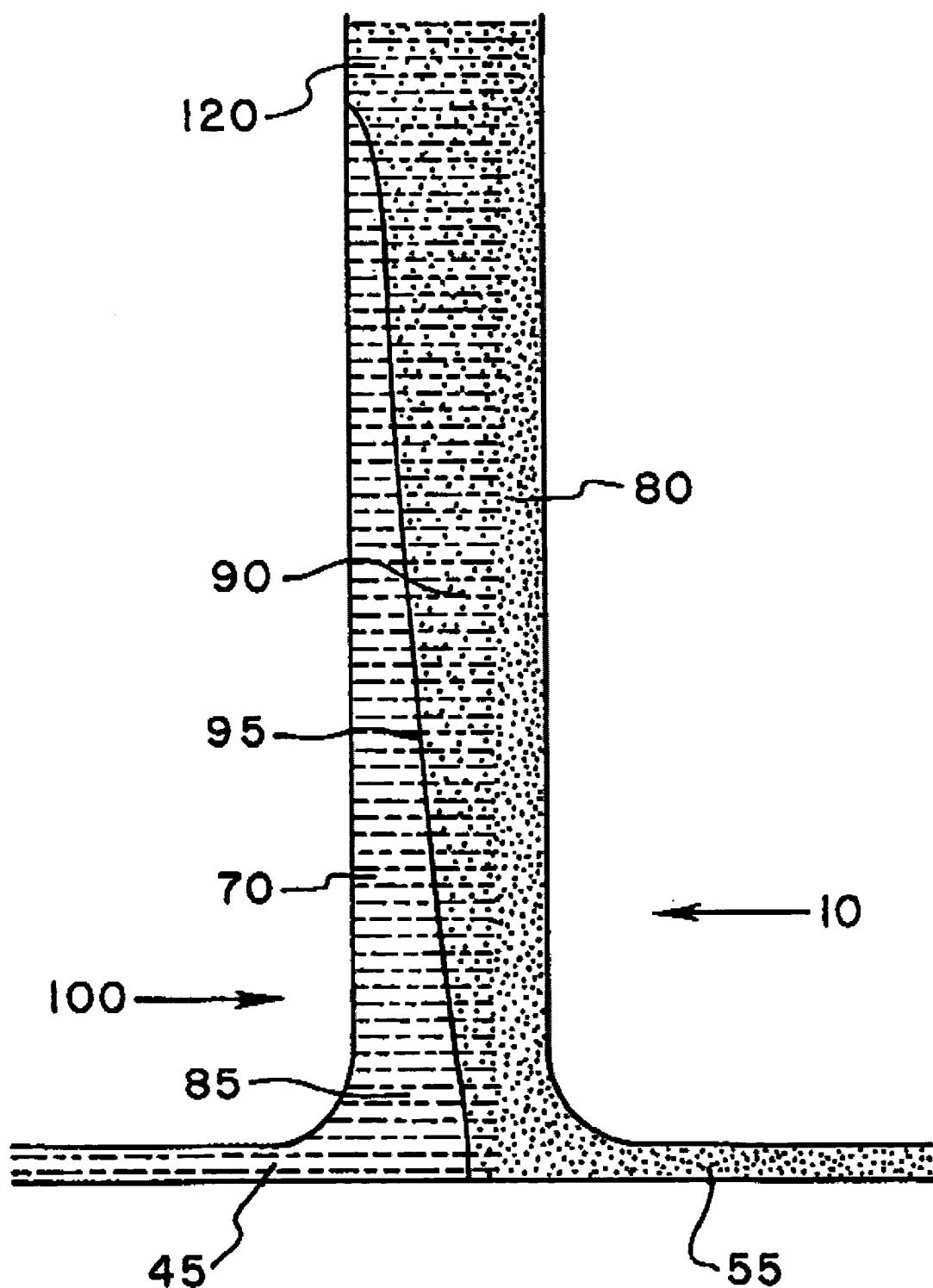


Fig. 2

Regarding claims 32, 38 – 40, 44 and 45, it should be noted that these claims are directed to a system or apparatus. Therefore, it is the structural limitations of the apparatus, as recited in the claims, which are considered in determining the patentability of the apparatus. These claims recite various process or use limitations and are accorded no patentable weight to an apparatus. For example, these claims recite how the apparatus is to be operated, such as with a chamber solution comprising either a hydrophilic or hydrophobic liquid, which do not impart any limitations to define the structure of the apparatus being claimed. Process limitations do not add patentability to a structure, which is not distinguished from the prior art. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. See *In re Casey*, 152 USPQ 235 (CCPA 1967); and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kasdan et al. teach flow cell for use with a particle count analyzer. Matson teaches a flow-through type cell for analyzing samples using liquid chromatography.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines, Ph.D. whose telephone number is (703) 305-0401. The examiner can normally be reached on Monday - Friday (11:30 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (703) 308-4037. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.


Jill Warden
Supervisory Patent Examiner
Technology Center 1700